11/01/2006

STRUCTURE UPLOADED L1

=> d L1 HAS NO ANSWERS

STR

G1 H, Me, Et, n-Pr, i-Pr

Structure attributes must be viewed using STN Express guery preparation.

=> s l1 full

FULL SEARCH INITIATED 18:29:32 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 95322 TO ITERATE

100.0% PROCESSED SEARCH TIME: 00.00.02

95322 ITERATIONS

L2

62 SEA SSS FUL L1

=>

Uploading C:\Program Files\Stnexp\Queries\10518624\2.str

62 ANSWERS

ring bonds:
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 8-10 9-12 10-11 10-13 11-12
11-16 13-14 14-15 15-16

exact/norm bonds: 5-7 6-9 7-8 7-17 8-9 8-10 9-12 11-12 17-18

normalized bonds :

containing 1 :

G1:H,CH3,Et,n-Pr,i-Pr

Match level :

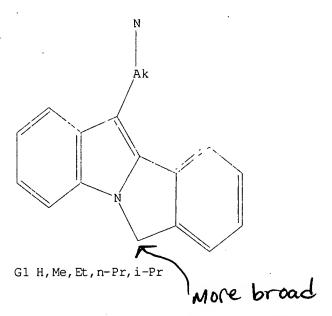
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:CLASS

L3 STRUCTURE UPLOADED

=> d

L3 HAS NO ANSWERS

L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 13 full
FULL SEARCH INITIATED 18:30:09 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 95322 TO ITERATE

100.0% PROCESSED 95322 ITERATIONS
SEARCH TIME: 00.00.02

103 SEA SSS FUL L3

103 ANSWERS

=> fil caplus COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
333.88 334.09

FULL ESTIMATED COST

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FILE COVERS 1907 - 1 Nov 2006 VOL 145 ISS 19 FILE LAST UPDATED: 31 Oct 2006 (20061031/ED)

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They are available for your review at:

http://www.cas.org/infopolicy.html

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L5 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
100:77024
Preparation of tetracyclic arylalkyl indoles having serotonin receptor affinity
Jasti, Venkateswarlu; Ramakrishna, Venkata Satya Nirogi; Kambhampati, Rama Sastri; Battula, Srinivasa Reddy; Rao, Venkata Satya Vecrabhadra Vadlamudi
Suven Pharmaceuticals Ltd., India
PATENT INTERPATION:
DOCUMENT TYPE:
LANGUAGE:
PANJUY ACC. NUM. COUNT:
PATENT INTERPATION:
1

ASSTANTANCE

PATENT INTERPATION:
1

ASSTANTANCE

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AND ASSTANTANCE

PARENT INTERPATION:
1

ASSTANTANCE

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                                                                                                                                                                                                                                                   Instant App.
     FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                  PATENT NO.
                                                                                                                                                       KIND DATE
PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2004000845 A1 20031231 WO 2003-IN:224 20030619

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BB, BB, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HB, HU, ID, LI, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TM, TT, TZ, UA, CM, CG, KG, KB, KB, KB, SD, SL, SL, TJ, TM, TM, TT, TZ, UA, KG, KZ, MD, RU, TJ, TH, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GM, GQ, GW, ML, MR, NE, SN, TD, TG CA 2490115 AA 20031231 CA 2003-249594 20030619

AU 2003249594 A1 20040106 AU 2003-249594 20030619

BR 2AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TB, BC, BC, CH, CY, CZ 20030619

PRIORITY APPLN. INFO::

WO 2004-44724 W 20030619
                                                                                                                                                                                                                                                                                                                                                                                                              20030619
 OTHER SOURCE(S):
                                                                                                                                                      MARPAT 140:77024
                               ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) 639808-61-0 CAPLUS 6H-Isolndolo[2,1-a]indole-11-ethanamine, N,N-dimethyl- (9CI) (CA INDEX NAME)
                                                                              H2-CH2-NMe2
                               639808-62-1 CAPLUS
6H-Isoindolo{2,1-a}indole-11-ethanamine, 2-chloro-N,N-dimethyl- (9CI)
                                                                             :H2-CH2-NMe2
                                639808-63-2 CAPLUS
6H-Isolndolo[2,1-a]indole-11-ethanamine, 2-chloro-N,N-dimethyl-,
hydrochloride (9CI) (CA INDEX NAME)
                                                                          CH2-CH2-NMe2
                                                     •x HC1
                                639808-64-3
                                639808-64-3 CAPLUS
6H-Isoindolo[2,1-a]indole-11-ethanamine, 2-chloro-N,N-dimethyl-,
(221-2-butenedloate (9CI) (CA INDEX NAME)
                               CRN 639808-62-1
CMF C19 H19 C1 N2
```

```
10 NR13R14
                                                     CR11R12|n
                    The title compds. [I; RO = H, alkyl; R1-R12 = H, halo, oxo, thio, etc.;
                    the adjacent groups like R1 and R2, etc. together with carbon atoms to which they are attached may form 5-7 membered ring which may further contain one or more double bonds and/or one or more heteroatoms such as
                     N, S or Se; or R9 and R10 or R11 and R12 together with the carbon atoms
                     which they are attached may form a 3-6 membered ring which may further contain one or more double bonds and/or one or more heteroatoms such as
                 Ontain one or more double bonds and/or one or more heteroatoms such as N, S or Se; R13 and R14 = H, alkyl, cycloalkyl, aryl, etc.; or NR13R14 = 3-7 membered heterocyclyl; n = 1-8], useful for treating conditions where a modulation of 5-HT and/or serotonin activity is desired (no data), were prepared Thus, reacting 1-(2'-bromobenzyl)-N,N-dimethyltryptamine with N,N-dimethylacetanide in the presence of Pdcl2[P(c-tolyl)3]2 and AcoK afforded 11-(2-N,N-dimethylaminoethyl)-6H-isoindolo[2,1-a]indole. This invention also relates to processes for preparing the compds. I, compns. containing effective amts. of the compound I and the use of such a bound/composition in therapy.

G39808-61-0P 639808-62-1P 639808-63-2P 639808-61-69 639808-76-6P 639808-66-7P 639808-68-7P 639808-69-8P 639808-71-2P 639808-71-2P 639808-71-2P 639808-71-9P 639809-71-9P 639809
(uses) (preparation of isoindolo[2,1-a]indoles having serotonin receptor affinity)
                   ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
                                                                                                                                                                                                                                                       (Continued)
                    CM
                                  . 2
                     CRN 110-16-7
CMF C4 H4 O4
 Double bond geometry as shown.
                    639808-65-4 CAPLUS
Butanediolc acid, hydroxy-, compd. with 2-chloro-N,N-dimethyl-6H-isoindolo[2,1-a]indole-11-ethanamine (9CI) (CA INDEX NAME)
                    CM 1
                    CRN 639808-62-1
CMF C19 H19 C1 N2
                                                  сн<sub>2</sub>-сн<sub>2</sub>-мме<sub>2</sub>
                                       2
                    CM
                      639808-66-5 CAPLUS
6H-Isolndolo[2,1-a]indole-11-ethanamine, 2-chloro-N,N-dimethyl-,
ethanedioate (9CI) (CA INDEX NAME)
                                   1
```

L5 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN CRN 639808-62-1 CMF C19 H19 C1 N2 (Continued)

639808-67-6 CAPLUS
6H-Isoindolo{2,1-a}indole-11-ethanamine, 2-chloro-N,N-dimethyl-,
2-hydroxy-1,2,3-propanetricarboxylate (9CI) (CA INDEX NAME)

CRN 639808-62-1 CMF C19 H19 C1 N2

ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) 639808-72-3 CAPLUS 6H-1soindolo[2,1-a]indole-11-ethanamine, 2-bromo-N-cyclopropyl-N-methyl-(9C1) (CA INDEX NAME)

639808-73-4 CAPLUS 6H-Isoindolo{2,1-a}indole-11-ethanamine, 4-chloro-N,N-dimethyl- (9CI) INDEX NAME)

639808-74-5 CAPLUS 6H-Isoindolo(2,1-a)indole-11-ethanamine, 3,4-dichloro-N,N-dimethyl- (9CI) (CA INDEX NAME)

639808-75-6 CAPLUS 6H-Isoindolo[2,1-a]indole-11-ethanamine, 1-chloro-N,N,4-trimethyl- (9CI) (CA INDEX NAME)

ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

639808-68-7 CAPLUS 6H-Isoindolo[2,1-a]indole-11-ethanamine, 2-fluoro-N,N-dimethyl- (9CI)

INDEX NAME)

RN 6350 CN 6H-ISO INDEX NAME) 639808-69-8 CAPLUS 6H-Isoindolo[2,1-a]indole-11-ethanamine, N,N,2-trimethyl- (9CI) (CA

639808-70-1 CAPLUS
6H-Isoindolo(2,1-a]indole-11-ethanamine, 2-methoxy-N,N-dimethyl- (9CI)
(CA INDEX NAME)

639808-71-2 CAPLUS 6H-Isoindolo[2,1-a]indole-11-ethanamine, 2-bromo-N,N-diethyl- (9CI) (CA INDEX NAME)

ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

639808-76-7 CAPLUS 6H-Isolndolo(2,1-a)indole-11-ethanamine, 3-chloro-N,N,4-trimethyl- (9CI) (CA INDEX NAME)

RN 639808-77-8 CAPLUS CN 6H-Isoindolo(2,1-a)indole-l1-ethanamine, N,N-dimethyl-4-(trifluoromethyl)-(9C1) (CA INDEX NAME)

639808-78-9 CAPLUS 6H-Isoindolo[2,1-a]indole-11-ethanamine, 2,4-difluoro-N,N-dimethyl- (9CI) (CA INDEX NAME)

639808-79-0 CAPLUS
6M-Isoindolo[2,1-a]indole, 11-[2-(1-pyrrolidinyl)ethyl]- (9CI) (CA INDEX Page 9 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN NAME) (Continued)

639808-80-3 CAPLUS 6 6H-Isoindolo[2,1-a]indole, 2-bromo-ll-[2-(1-pyrrolidinyl)ethyl]- (9CI) (CA INDEX NAME)

639808-81-4 CAPLUS 6H-Isoindolo[2,1-a]indole, 11-{2-(1-piperidinyl)ethyl}- (9CI) (CA INDEX NAMZ)

ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

639808-85-8 CAPLUS

6H-Isoindolo[2,1-a]indole-11-ethanamine, 4-ethyl-N,N-dimethyl- (9CI) (CA INDEX NAME)

639808-86-9 CAPLUS 6H-Isoindole(2, 1-a)indole-11-ethanol, α -(dimethylamino)- (9CI) (CA INDEX NAME)

639808-87-0 CAPLUS 6H-Isolndolo[2,1-a]indole-11-ethanamine, 4-methoxy-N,N-dimethyl- (9CI) (CA INDEX NAME)

ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

639808-82-5 CAPLUS 6H-Isoindolo(2,1-a]indole, 11-{2-(4-methyl-1-piperazinyl)ethyl}- {9CI} (CA INDEX NAME)

639808-83-6 CAPLUS 6H-Isoindole(2,1-a)indole-11-methanol, a-[2-(1-pyrrolidinyl)ethyl]-(9CI) (CA INDEX NAME)

639808-84-7 CAPLUS 6H-Isoindolo[2,1-a]indole-11-methanol, 2-bromo-u-[2-(1-piperidinyl)ethyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

639808-88-1 CAPLUS 6H-Isoindolo(2,1-a)indole-11-ethanamine, 2-bromo-N,N-dimethyl- (9CI) (CA INDEX NAME)

639808-89-2 CAPLUS 6H-Tsolndolo(2, 1-a)indole-11-ethanamine, 4-bromo-N,N-dimethyl- (9CI) (CA INDEX NAME)

639808-90-5 CAPLUS
6H-Isoindolo[2,1-a]indole-11-ethanamine, 4-fluoro-N,N-dimethyl- (9CI)

INDEX NAME)

639808-91-6 CAPLUS 6H-TBOindole, 2-bromo-11-(2-(4-methyl-1-piperazinyl)ethyl)-(5C) (CA INDEX NAME)

15 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 639809-23-7 CAPLUS
CN 6H-Isoindolo[2,1-a]indole-ll-ethanamine,
2-chloro-M-cyclopropyl-N-methyl-,
2-hydroxy-1,2,3-propanetricarboxylate (9CI) (CA INDEX NAME)

CRN 639809-22-6 CMF C21 H21 C1 N2

СМ

L5 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

639809-25-9 CAPLUS
6H-Isoindolo[2,1-a]indole-11-ethanamine, N-cyclopropyl-2-fluoro-N-methyl(9CI) (CA INDEX NAME)

639809-27-1 CAPLUS
Acetamide, N-acetyl-N-{2-(3-chloro-4-methyl-6H-isoindolo[2,1-a]indol-11-yl]ethyl}- (9CI) (CA INDEX NAME)

639809-29-3 CAPLUS Acetamide, N-[2-7-3-chloro-4-methyl-6H-isoindolo[2,1-a]indol-11-yl)ethyl]-(9C1) (CA INDEX NAME)

L5 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 639809-32-8 CAPLUS
CN Acetamide,
N-[2-{3-ch]oro-2-methoxy-6K-isoindolo[2,1-a]indol-11-yl)ethyl](9CI) (CA INDEX NAME)

639809-35-1 CAPLUS Acetamide, N-[2-[2-(aminosulfonyl)-3-chloro-6H-isoindolo[2,1-a]indol-11-yljethyl]- (9CI) (CA INDEX NAME)

639809-38-4 CAPLUS
Acetamide, N-[2-(3-iodo-2-methoxy-6H-isoindolo[2,1-a]indol-11-yl)ethyl](9C1) (CA INDEX NAME)

639809-39-5 CAPLUS 6H-Isoindolo(2,1-a)indole-11-ethanamine, 3-chloro-N,4-dimethyl- (9CI)

INDEX NAME)

L5 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

639809-41-9 CAPLUS

CN Acetamide, N-[2-[3-ch]ord-methyl=6H-isoindolo[2,1-a]indol-11-yl]ethyl]-N-methyl- (9C1) (CA INDEX NAME)

639809-42-0 CAPLUS 6H-Isoindolo(2,1-a]indole-11-ethanamine, 3-chloro-2-methoxy-N-methyl-(SCI) (CA INDEX NAME)

639809-44-2 CAPLUS 6H-Isoindolo[2,1-a]indole-2-sulfonamide, 3-chloro-11-[2-(methylamino)ethyl]- (9CI) (CA INDEX NAME)

639809-46-4 CAPLUS 6H-Isolndolo[2,1-a]indole-11-ethanamine, 3-iodo-2-methoxy-N-methyl- (9CI) (CA INDEX NAME)

Searched by Jason M. Nolan, Ph.D.

ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

:H2-CH2-NHMe

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L5 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:2617 CAPLUS
DOCUMENT NUMBER: 140:77023
ITILE: Preparation of novel tetracyclic arylcarbonyl indoles having sectonin receptor affinity
Jasti Venkateswateru Faliafkrishina, Venkate Satya
Nirggi- Kambhampati, Rama Sastri; Battula, Silnivasa
**Rédy' Rao, Venkata Satya Veerabhadra Vadlamudi
Suven Pharmaceuticals Ltd., India; Suven Life PATENT ASSIGNEE(S): C Ltd.
PCT Int. Appl., 63 pp.
CODEN: PIXXO2
Patent
English
1 SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO PATENT NO.

WO 2004000205
W: AE, AG, AL,
CO, CR, CU,
GM, HR, HU,
LS, LT, LU,
PL, PT, RO,
UG, US, UZ,
RW: GH, GM, KE,
KG, KZ, MD,
FI, FR, GB,
BF, BJ, CF,
CA 2490002
AU 2003249583
BR 20031012174
CN 1665815
JP 2005537239
US 2005250834
PRIORITY APPLN. INFO.: A2 20031231
A3 20040408
AM, AT, AU, AZ,
CZ, DE, DK, DM,
ID, IL, IN, IS,
IV, MA, MD, MG,
RU, SD, SE, SG,
VN, YU, ZA, ZM,
LS, MW, MZ, SD,
RU, TJ, TM, AT,
GR, HU, IE, IT,
GR, HU, IE, IT,
GG, CI, CM, GA,
AA 20031231
A1 20031208
A2 2005005
A 2005007
T2 20051208
A1 20051110 WO 2003-IN223 20030619 BA, BB, BG, BR, BY, BZ, CA, CH, CN, DZ, EC, EE, ES, FI, GB, GD, GE, GH, JP, KE, KG, KP, KR, KZ, LC, LK, LR, MK, MN, MM, MC, MZ, NO, NZ, GM, PH, SK, SL, TJ, TM, TN, TR, TT, TZ, UR, ZW
SL, SZ, TZ, UG, ZM, ZM, AM, AZ, BY, SE, BG, CH, CY, CZ, DE, DK, EE, ES, LU, MC, NL, PT, RO, SE, SI, SK, TR, CM, GQ, GW, ML, MR, NE, SN, TD, TG
CA 2003-2495093 20030619
AU 2003-249593 20030619
AU 2003-12174 20030619
BR 2003-12174 20030619
CN 2003-R14592 20030619
CN 2003-R14592 20030619
CN 2003-F15419 20030619
US 2005-518612 20050513 WO 2003-IN223 OTHER SOURCE(S): MARPAT 140:77023

L5 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



The title compds. [1: R1-R12 = H, halo, oxo, thio, etc.: or the adjacent groups like R1 and R2, etc. together with carbon atoms to which they are attached may form 5-7 membered ring which may further contain one or more double bonds and/or one or more heteroatoms such as O, N, S or Se: or R9 and R10 or R11 and R12 together with the carbon atoms to which they are attached may form a 3-6 membered ring which may further contain one or more double bonds and/or one or more heteroatoms such as O, N, S or Se: R13 and R14 = H, alkyl. cycloalkyl, aryl, etc.: or NR13R14 = 3-7 membered heterocyclyl; n = 1-8], useful for treating conditions where a modulation of 5-HT and/or serotonin activity is desired (no data), were prepared

reacting 1-(2'-bromobenzoyl)-N,N-dimethyltryptamine with N,N-dimethylacetamide in the presence of PdGl2[P(o-tolyl]3]2 and AcOK afforded <math>11-(2-N,N-dimethylaminoethyl)-6H-isoindolo[2,1-a]indol-6-one. This invention also relates to processes for preparing the compds. I,

This invention also relates to processes for preparing the compds. I, compas.

compas.

containing effective amts. of the compound I and the use of such a compound/composition
in therapy.

IT 638903-04-2P 638805-05-3P 639805-06-4P 638903-09-7P 638903-01-0P 638903-01-0P 638903-11-1P 638903-11-2P 638903-11-3P 638903-11-3P 638903-11-3P 638903-11-3P 638903-12-3P 638903-12-3P 638903-12-3P 638903-12-3P 638903-12-3P 638903-22-4P 638903-22-4P 638903-22-4P 638903-23-4P 638903-23-4P 638903-23-4P 638903-23-4P 638903-23-4P 638903-23-4P 638903-23-4P 638903-23-4P 638903-23-4P 638903-30-4P 638903-51-3P 638903-53-54-2P 638903-53-54-2P 638903-53-54-2P 638903-53-64-2P 638903-53-64-2P 638903-53-64-2P 638903-63-64-2P 638903-63-64-2P 638903-64-4P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Uses) (preparation of isoindolo[2,1-a]indolones having serotonin receptor affinity) 639805-04-2 CAPLUS 68-150indolo[2,1-a]indol-6-one, 11-[2-(dimethylamino)ethyl]- (9CI) (CA INDEX NAME)

ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

639805-05-3 CAPLUS 6H-Isolndolo[2,1-a]indol-6-one, 11-[2-(dimethylamino)ethyl]-2-fluoro-(9CI) (CA INDEX NAME)

639805-06-4 CAPLUS 6H-Isoindolo[2,1-a]indol-6-one, ll-[2-(dimethylamino)ethyl]-2-fluoro-, monohydrochloride (9CI) (CA INDEX NAME)

• HC1

639805-07-5 CAPLUS 6H-Isoindolo(2,1-a)indol-6-one, ll-[2-(dimethylamino)ethyl]-2-fluoro-, (22)-2-butenedioate (9CI) (CA INDEX NAME)

CRN 639805-05-3 CMF C19 H17 F N2 O

L5 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CH2-CH2-NMe

CM 2 CRN 110-16-7 CMF C4 H4 O4

Double bond geometry as shown.

RN 639805-08-6 CAPLUS
CN Butanediola acid, hydroxy-, compd. with 11-[2-(dimethylamino)ethyl]-2fluoro-6H-isoindolo[2,1-a]indol-6-one (9CI) (CA INDEX NAME)

CRN 639805-05-3 CMF C19 H17 F N2 O

CM 2 CRN 6915-15-7 CMF C4 H6 O5

L5 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued

CM 2

CRN 77-92-9

RN 639805-11-1 CAPLUS CN 6H-Isoindolo[2,1-a]indol-6-one, 2-bromo-11-[2-(dimethylamino)ethyl)-(9CI) (CA INDEX NAME)

RN 639805-12-2 CAPLUS (6H-Isoindolo[2,1-a]indol-6-one, 2-chloro-11-[2-(dimethylamino)ethyl]-(9CI) (CA INDEX NAME)

RN 639805-13-3 CAPLUS CN 6H-180indol(2, 1-s)indol-6-one, 4-chloro-11-[2-(dimethylamino)ethyl]-(9Cl) (CA INDEX NAME) L5 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

он | | но₂с- сн- сн₂- со₂н

N 639805-09-7 CAPLUS
N 6H-Isoindolo[2,1-a]indol-6-one, 11-[2-(dimethylamino)ethyl]-2-fluoro-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 639805-05-3 CMF C19 H17 F N2 O

CM 2

CRN 144-62-7 CMF C2 H2 O4

RN 639805-10-0 CAPLUS
CN 6H-Isolndolo[2,1-a]indol-6-one, 11-[2-(dimethylamino)ethyl1-2-fluoro-, 2-hydroxy-1,2,3-propanetricarboxylate (9C1) (CA INDEX NAME)

CM 1

CRN 639805-05-3 CMF C19 H17 F N2 O

L5 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued

RN 639805-14-4 CAPLUS CN 6H-Isoindol(2,1-a)indol-6-one, 11-{2-(dimethylamino)ethyl}-2-methyl-(9CI) (CA INBEX NAME)

N 639805-15-5 CAPLUS
N 6H-Isoindolo(2,1-a)indol-6-one, 11-[2-(dimethylamino)ethyl]-2-methoxy-(9CI) (CA INDEX NAME)

RN 639805-16-6 CAPLUS
CN 6H-Isoindolo[2,1-a]indol-6-one, 11-[2-(dimethylamino)ethyl]-4-methoxy(9C1) (CA INDEX NAME)

RN 639805-17-7 CAPLUS
CN 6H-Isoindolo[2,1-a]indol-6-one, 11-[2-(dimethylamino)ethyl]-4-

L5 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) (trifluoromethyl)- (9CI) (CA INDEX NAME)

RN 639805-18-8 CAPLUS CN 6H-Isoindolo[2,1-a]indol-6-one, 11-[2-(dimethylamino)ethyl]-4-ethyl-(9CI) (CA INDEX NAME)

RN 639805-19-9 CAPLUS
CN 6H-Isoindolo[2,1-a]indol-6-one, 11-[2-(dimethylamino)ethyl]-2,4-difluoro(9CI) (CA INDEX NAME)

RN 639805-20-2 CAPLUS
CN 6H-Isolndol(2,1-a)indol-6-one, 2,4-dichloro-11-[2-(dimethylamino)ethyl](5C1) (CA INDEX NAME)

L5 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 639805-25-7 CAPLUS
CN 6H-Isolndolo[2,1-a]indol-6-one, 11-[2-(dimethylamino)ethyl]-3,4-dimethyl(9C1) (CA INDEX NAME)

NH 639805-26-8 CAPLUS

NH-Isoindolo(2,1-a)indol-6-one, 1-chloro-11-[2-(dimethylamino)ethyl]-4methyl- (9CI) (CA INDEX NAME)

RN 639805-27-9 CAPLUS
CN 6H-Isoindolo[2,1-a]indol-6-one, 3-chloro-11-[2-(dimethylamino)ethyl]-4-methyl (9CI) (CA INDEX NAME)

RN 639805-28-0 CAPLUS CN 6H-Isoindolo(2,1-a]indol-6-one, 11-[2-(dimethylamino)ethyl]-4-methyl-(9C1) (CA INDEX NAME) L5 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 639805-21-3 CAPLUS CN 6H-Isoindol(2,1-a]indol-6-one, 3,4-dichloro-11-[2-(dimethylamino)ethyl]-(9CI) (CA INDEX NAME)

RN 639805-22-4 CAPLUS
CN 6H-Isoindolo[2,1-a]indol-6-one, 1,2,4-trichloro-11-[2-(dimethylamino)ethyl]- (9CI) (CA INDEX NAME)

RN 639805-24-6 CAPLUS CN 6H-Isoindo[2,1-a]indol-6-one, 11-[2-(dimethylamino|ethyl]-2,4-dimethyl-(9Cl) (CA INDEX NAME)

L5 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued

RN 639805-29-1 CAPLUS
CN 6H-Isoindolo[2,1-a]indol-6-one, 2-bromo-11-[2-(4-morpholinyl)ethyl](9CI)
(CA INDEX NAME)

RN 639805-30-4 CAPLUS CN 6H-Isolindo[2,1-a]indol-6-one, 2-bromo-11-[2-(4-methyl-1piperazinyl)ethyl- (SCI) (CA INDEX NAME)

N 639805-51-9 CAPLUS

LS ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN 6H-Isoindolo[2,1-a]indol-6-one, 11-[2-(cyclopropylmethylamino)ethyl]-2fluoro- (9CI) (CA INDEX NAME)

RN 639805-52-0 CAPLUS
CN 6H-Isolndolo[2,1-e]lndol-6-one, 11-[2-(cyclopropylamino)ethyl]-2-fluoro(9CI) (CA INDEX NAME)

RN 639805-53-1 CAPLUS
CN Acetamide, N-acetyl-N-[2-(2-methoxy-6-oxo-6H-isoindolo[2,1-a]indol-ll-yl)ethyll- (Cl INDEX NAME)

L5 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 639805-54-2 CAPLUS
CN Acetamide, N-{2-(2-methoxy-6-oxo-6H-isoindolo[2,1-a]indol-11-yl)ethyl}(9Cl) (CA INDEX NAME)

RN 639805-55-3 CAPLUS CN Acetamide, N-acetyl-N-[2-(3-chloro-4-methyl-6-oxo-6H-isoindolo[2,1-a]indol-11-yl)ethyl)- (9C1) (CA INDEX NAME)

RN 639805-56-4 CAPLUS CN Acetamide, N-[2-(35-chloro-4-methyl-6-oxo-6H-isoindolo[2,1-a]indol-11yl)ethyl]- (9C1) (CA INDEX NAME)

L5 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 639805-57-5 CAPLUS
CN Acetamide, N-[2-(3-chloro-2-methoxy-6-oxo-6H-isoindolo[2,1-a]indol-11-y1)ethyl]- (9CI) (CA INDEX NAME)

RN 639805-58-6 CAPLUS
CN Acetamide,
N-[2-[2-(2-(aminosulfonyl)-3-chloro-6-oxo-6H-isoindolo[2,1-a]indol11-yl]ethyl]- (9CI) (CA INDEX NAME)

RN 639805-59-7 CAPLUS
CN Acetamide, N-[2-(3-iodo-2-methoxy-6-oxo-6H-isoindolo[2,1-a]indol-11y1)ethylj- (9c1) (CA INDEX NAME)

RN 639805-60-0 CAPLUS
CN' 6H-Isolndolo(2,1-a)indol-6-one, 3-chloro-4-methyl-11-[2-

L5 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) (methylamino)ethyl]- (9C1) (CA INDEX NAME)

RN 639805-61-1 CAPLUS
CN Acetamide, N-[2-(3-chloro-4-methyl-6-oxo-6H-isoindolo[2,1-a]indol-ll-yljethyl]-N-methyl- (9CI) (CA INDEX NAME)

RN 639805-62-2 CAPLUS CN 6H-Isoindolo[2,1-e]indol-6-one, 3-chloro-2-methoxy-11-[2-(methylamino)ethyl]- (9CI) (CA INDEX NAME)

RN 639805-63-3 CAPLUS CN 6H-Isoindol(2,1-a)indole-2-sulfonamide, 3-chloro-11-{2-(methylamino)ethyl)-6-oxo- (9CI) (CA INDEX NAME)

(Continued)

L5 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS On STN

639805-64-4 CAPLUS

63-903-04-1 CAPLOS 6H-Isoindolo[2,1-a]indol-6-one, io-2-methoxy-11-[2-(methylamino)ethyl]-(9CI) (CA INDEX NAME)

ANSWER 3 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

263865-08-3 CAPLUS Acetamide, N-{2-{6H-isoindolo{2,1-a}indol-li-yl}ethyl}- (9CI) (CA INDEX NAME)

RN CN INDEX 263865-09-4 CAPLUS Propanamide, N-[2-(6H-isoindolo[2,1-a]indol-11-yl)ethyl]- (9CI) (CA NAME }

Cyclorpanecarboxamide, N-[2-(6H-isoindolo[2,1-a]indol-11-y1)ethyl]-(9C1) (CA IMDEX HAME)

L5 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2003:215250 CAPLUS DOCUMENT NUMBER: 138:362155

DOCUMENT NUMBER: TITLE:

Three-Dimensional Quantitative Structure-Activity Relationship Studies on Selected MT1 and MT2

Melatonin

Selectivity

Receptor Ligands: Requirements for Subtype

AUTHOR (S):

and Intrinsic Activity Modulation Rivara, Silvia; Mor, Marco; Silva, Claudia; Zuliani, Valentina; Vacondio, Federica; Spadoni, Gilberto; Bedini, Annalida; Tarzia, Giorgio; Lucini, Valeria; Fannacci, Marilou; Fraschini, Franco; Plazzi, Pier Vincenzo

CORPORATE SOURCE:

SOURCE:

PUBLISHER:

DOCUMENT LANGUAGE:

Bedini, Annalida: Tarzia. Giorgio: Lucini, Valeria; Pannacci, Marilou; Fraschini, Franco; Plazzi, Pier Vincenzo
Dipartimento Farmaceutico, Universita degli Studi di Parma, Farma, 1-43100, Italy
Journal of Medicinal Chemistry (2003), 46(8), 1429-1432 (2003), 46(8), 1429-1

ANSWER 3 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

RN CN (9CI) 263865-12-9 CAPLUS Cyclobutanecarboxamide, N-[2-(6H-isoindolo[2,1-a]indol-11-y1)ethy1]-(CA INDEX NAME)

263865-13-0 CAPLUS Acctamide, N-[2-(2-methoxy-6H-isoindolo[2,1-a]indol-11-yl)ethyl]- (9CI) (CA INDEX NAME)

263865-14-1 CAPLUS Propanamide, N-12-(2-methoxy-6H-isoindolo[2,1-a]indol-11-yl)ethyl]- (9CI) (CA INDEX NAME)

(Continued)

ANSWER 3 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

263865-15-2 CAPLUS
Cyclopropanecarboxamide, N-[2-(2-methoxy-6H-1soindolo[2,1-a]indol-11-y1)ethyl]- (9CI) (CA INDEX NAME)

263865-16-3 CAPLUS Acetamide, N-[2-(2-ethoxy-6H-isoindolo[2,1-a]indol-11-y1]ethy1]- (9CI) (CA INDEX NAME)

263865-17-4 CAPLUS Propanamide, N-[2-(2-ethoxy-6H-isoindolo[2,1-a]indol-11-y1)ethy1]- (9CI) (CA INDEX NAME)

L5 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

263865-18-5 CAPLUS Butanamide, N-[2-(2-ethoxy-6H-isoindolo[2,1-a]indol-11-yl)ethyl]- (9CI) (CA INDEX NAME)

263865-19-6 CAPLUS
Cyclopropanecarboxamide, N-{2-(2-ethoxy-6H-isoindolo{2,1-a}indol-11-yl)ethyl}- {9CI} (CA INDEX NAME)

69 THERE ARE 69 CITED REFERENCES AVAILABLE FOR RECORD. ALL CITATIONS AVAILABLE IN THE RE

L5 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:10274 CAPLUS
DOCUMENT NUMBER: 136:64149
TITLE: 8150:indolo[2,1-a]indoles or 5,6-dihydroindolo[2,1-a]isoquinolinesas subtype-selective melatonergics for therapeutic use
Therapeutic use
PATENT ASSIGNEE(S): Cognetix, Inc., USA
POT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: PATENT
LANGUAGE: PATENT
PANILY ACC. NUM. COUNT: 1

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	PATENT NO. KIN					IND DATE			APPLICATION NO.						DATE			
					-													
WO	2002	2002000215			A1		20020103		WO 2001-US19958						20010622			
	W:	AE,	AG.	AL.	AM.	AT.	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
		co,	CR,	CU,	cz,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
		GM.	HR.	HU.	ID.	IL.	IN,	IS.	JP,	KE,	KG,	KP,	KR,	KZ,	LC.	LK,	LR,	
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	
		RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	TZ,	UA,	υG,	UΖ,	
		VN,	Yυ,	ZA,	ZW,	AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM				
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,	
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	
		ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	G₩,	ML,	MR,	NE,	SN,	TD,	TG			
US 2002040018					A1		2002	US 2001-886609					20010622					
IORITY	APP	LN.	INFO	. :					1	US 2	000-	3041	89P		P 2	0000	623	
										US 2	001-	2646	95P		P 2	0010	130	

R SOURCE(S): MARPAT 136:64149
The invention discloses the use of MT2 selective melatonergics as anticonvulsant agents and as analgesic agents. More specifically, the invention discloses the use of 6H-isoindolo[2,1-a]indoles or 5,6-dihydroindolo[2,1-a]isoquinolines which have melatonin agonist activity and which are selective for the MT2 receptor as anticonvulsant agents or analgesic agents. The invention further relates to the use of 5,6-dihydroindolo[2,1-a]isoquinolines and 6,7-dihydro-5H-benzo[c]azepino[2,1-a]indoles which have melatonin antagonist activity

which are selective for the MT2 receptor as pharmacol, tools for delineation of physiol, responses governed by MT2 receptor activation either by melatonin or selective agonists disclosed herein and for treatment of disorders associated with overprodn. of melatonin such as seasonal affective disorder (SAD) and shift work syndrome. Such

melatonin

tonin
antagonists are also useful for treating Parkinson's Disease.
263865-14-1, CGX 031-120
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(isoindoloindole derivs. and dihydroindoloisoquinoline derivs. as
subtype-selective melatonergics for therapeutic use)
263865-14-1 CAPUS
Propanamide, N-[2-(2-methoxy-6H-isoindolo[2,1-a]indol-11-y1)ethy1]- (9CI)
(CA INDEX NAME)

ANSWER 4 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

244160-10-9, CGX 031139 263865-13-0, CGX 031133
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(phencyclidine-like behavior; isoindoloindole derivs. and
dihydroindoloisoquinoline derivs. as subtype-selective melatonergics
for therapeutic use)
244160-10-9 CAPLUS
Butanamide, N-(2-(2-methoxy-6H-isoindolo[2,1-a]indol-11-y1)ethyl]- (9CI)
(CA INDEX NAME)

263865-13-0 CAPLUS Acetamide, N-[2-(2-methoxy-6H-isoindolo[2,1-a]indol-11-yl)ethyl]- (9CI) (CA INDEX NAME)

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L5 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:321177 CAPLUS
DOCUMENT NUMBER: 135:122368
12-Aryl indole NK1 receptor antagonists: optimization of the 2-Aryl ring and the indole nitrogen

Dinnell, K.; Chicchi, G. G.; Dhar, M. J.; Elliott, J. M.; Hollingworth, G. J.; Kurtz, M. M.; Ridgill, M. Rycroft, W.; Tsao, K.-L.; Williams, A. R.; Swain, C.

CORPORATE SOURCE:

J.
Department of Medicinal Chemistry, Merck, Sharp and Dohme Research Laboratories, Neuroscience Research Centre, Harlow, Essex, CM20 2QR, UK Bioorganic 4 Medicinal Chemistry Letters (2001), 11(9), 1237-1240 CODEN: BMCLE8; ISSN: 0960-894X Elsevier Science Ltd.
Journal English CASREACT 135:122368

SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI

AB Novel 2-aryl indole hNK1 receptor ligands were prepared utilizing palladium

cross-coupling chemical of a late intermediate as a key step. Compds.

with high hNK1 receptor binding affinity and good brain penetration (e.g., I)

IT

were synthesized.
351216-15-4P 351216-16-5P
RI: BAC (Bological activity or effector, except adverse); BSU (Biological

logical study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (optimization of the aryl ring and the indole nitrogen substituent in aryl indole NRI receptor antagonists) 351216-15-4 CAPLUS

RN 351216-15-4 CAPLUS
CN Piperazine,
1-(2-methoxyphenyl)-4-[3-(2-methyl-6H-isoindolo[2,1-a]indol-ll-yl)-1-oxopropyl]- (9CI) (CA INDEX NAME)

L5 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) ANSWER 5 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

351216-16-5 CAPLUS
Piperazine, 1-(2-methoxyphenyl)-4-[3-(2-methyl-6-oxo-6H-isoindolo[2,l-a]indol-11-yl)-1-oxopropyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT: THIS

THERE ARE 12 CITED REFERENCES AVAILABLE FOR

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

c.

L5 ANSMER 6 OF 11 CAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 2001:246308 CAPLUS DOCUMENT NUMBER: 135:70637 TITLE: 2-Arylindole-3-acetamides FDD-

2-Arylindole-3-acetamides FPP-Competitive inhibitors

AUTHOR (5):

of farnesyl protein transferase
Trotter, B. W.; Quigley, A. G.; Lumma, W. C.; Sisko,
J. T.; Walsh, E. S.; Hamann, C. S.; Robinson, R. G.;
Bhimnathwala, H.; Kolodin, D. G.; Zheng, W.; Buser,

A.; Huber, H. E.; Lobell, R. B.; Kohl, N. E.; Williams, T. M.; Graham, S. L.; Dinsmore, C. J. Department of Medicinal Chemistry, Merck Research Laboratories, West Point, PA, 19486, USA Bioorganic & Medicinal Chemistry Letters (2001), 11(7), 865-869 CODEN: BMCLE8; ISSN: 0960-894X Elsevier Science Ltd. CORPORATE SOURCE:

SOURCE:

PUBLISHER:

DOCUMENT TYPE: LANGUAGE: AB A series of

ISHER: Elsevier Science Ltd.
MENT TYPE: Journal
UAGE: English
A series of 2-arylindole-3-acetamide farnesyl protein transferase
inhibitors has been identified. The compds. inhibit the enzyme in a
farnesyl pyrophosphate-competitive manner and are selective for farnesyl
protein transferase over the related enzyme geranylgeranyltransferase-I.

representative member of this series of inhibitors demonstrates equal effectiveness against HDJ-2 and K-Ras farnesylation in a cell-based assay when geranylgeranylation is suppressed. 347373-82-4P

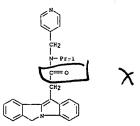
IT

RL: BAC (Biological activity or effector, except adverse); BSU

logical
study, unclassified); SPN (Synthetic preparation); BIOL (Biological
study); PREP (Preparation)
(arylindole acetamides farnesyl pyrophosphate-competitive inhibitors

of

farnesyl protein transferase)
347373-82-4 CAPLUS
6H-Isoindolo[2,1-a]indole-11-acetamide, N-(1-methylethyl)-N-(4-pyridinylmethyl)-(9CI) (CA INDEX NAME)



REFERENCE COUNT:

THERE ARE 24 CITED REFERENCES AVAILABLE FOR 24

L5 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 11
ACCESSION NUMBER:
2000:185117 CAPLUS
2000:185117 CAPLUS
132:273842
Happing the Melatonin Receptor. 6. Melatonin Agonists and Antagonists Derived from 6H-Isoindolo[2,1-a] indoles, 5,6-ohiphydroindolo[2,1-a] isoquinolines, and 6,7-Dihydro-5H-benzo[c]azepino[2,1-a]indoles
AUTHOR(S):

AUTHOR(S):
Paust, Ruediger; Garratt, Peter J. Jones, Rob; Yeh, Li-Kuan; Tsotinis, Andrew; Panoussopoulou, Maria:
Calogeropoulou, Theodora: Teh, Muy-Teck; Sugden, David CORPORATE SOURCE:

David

CORPORATE SOURCE:

Department of Chemistry, University College London,
London, WCIH ORJ, UK

Journal of Medicinal Chemistry (2000), 43(6),
1050-1061

CODEN: JMCNAR; ISSN: 0022-2623

PUBLISHER:
American Chemical Society
Journal
ABOURCE:
- English
AB 6H-Isoindolo[2.1-a]indoles, 5,6-dihydroindolo[2,1-a]isoquinolines, and
6,7-dihydro-5h-benzo[clarepino[2,1-alindoles have been prepared as
melatonin
analogs to investigate the nature of the binding site of the melatonin
receptor. The affinity of analogs was determined in a radioligand

receptor. Into attack, or community of community or community of community or commu

The

2-methoxyisoindolo[2,1-a]indoles showed much higher binding affinities
than the parent isoindoles and whereas 2-methoxyisoindolo[2,1-a]indoles
were agonists in the functional assay, its cyclopropanecarbonyl
derivative and
parent isoindoles were antagonists. The 2-ethoxyisoindolo[2,1-a]indoles
showed reduced binding affinities compared to their methoxy analogs,
while

the 5-chloro derivative showed a considerable reduction in binding

the 5-chloro derivative showed a considerable reduction in Dinging affinity and potency compared to acetyl 2-methoxyisoindolo[2,1-a]indole compound The 10-methoxy-5-6-dhydroindolo[2,1-a]isoquinolines had higher binding affinities than the corresponding parent indoloisoquinolines in the human receptor subtypes, and the parent compds. Were antagonists whereas the 10-methoxy derivs. Were agonists in the functional assay. The N-cyclobutanecarbonyl derivs. of both the parent and 10-methoxyl series had similar binding affinities and were both antagonists with similar potencies. The 11-methoxy-6.7-5H-benzo[c]azepino[2,1-a]indoles had higher

potencies. The 11-metnoxy-b, rennantal, rennantal, rennantal, rennantal, receptor but similar affinities at the mtl site; all of the compds were antagonists in the functional assay. Changing 11-methoxy for 11-ethoxy decreased the binding affinity slightly, and this was more evident at the MTZ receptor. All of the derivs. investigated had either the same or a greater affinity for the human MTZ receptor compared to the mtl receptor (range 1:1-1:132). This suggests that the mtl and MTZ receptor pockets differ in their ability to accommodate alkyl groups in the indole nitroden

ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) region of the melatonin mol. Two compds. were tested in functional

ys
on recombinant mtl and MT2 melatonin receptors. N-butanoyl
2-(9-methoxy-6H-iaoindolo[2,1-a]indol-11-yl]ethanamine was a potent
agonist with some selectivity (44-fold) for the MT2 receptor, while
N-butanoyl 2-(5,6,7-trihydro-11-methoxybenzo[c]cyclohept[2,1-a]indol-13yl]ethanamine was an MT2-preferring antagonist. Increasing the carbon
chain length between N-1 of indole and the 2-Ph group from n = 1 through

= 3 leads to a fairly regular decrease in the binding affinity, but, remarkably, when n = 3, it converts the methoxy compds. from melatonin agonists to antagonists. The Xenopus melatonin receptor thus cannot accommodate an N-n-alkyl chain attached to a 2-Ph substituent with n > 2 in the required orientation to induce or stabilize the active receptor conformation. $244160-10-9P\ 263865-08-3P\ 263865-19-9P\ 263865-11-9P\ 263865-11-9P$

IT

RL: BAC (Biological activity or effector, except adverse); BSU

(Biological .ogica: study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation and structure of melatonin agonists and antagonists

from isoindoloindoles, indoloisoquinolines, and benzoazepinoindoles) 244160-10-9 CAPLUS Butanamide, N-1(2-(2-methoxy-6H-isoindolo[2,1-a]indol-11-yl)ethyl]- (9CI) (CA INDEX NAME)

263865-08-3 CAPLUS Acetamide, N-{2-(6H-isoindolo{2,1-a}indol-11-y1)ethy1}- (9CI) (CA INDEX NAME)

RN 263865-09-4 CAPLUS CN Propanamide, N-{2-(6H-isoindolo[2,1-a]indol-11-yl)ethyl}- (9CI) (CA INDEX

ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

.
Butanamide, N-[2-(6H-isoindolo[2,1-a]indol-11-yl]ethyl]- (9CI) (CA INDEX
NAME)

Cyclopropanecarboxamide, N-[2-(6H-isoindolo[2,1-a]indol-11-yl)ethyl]-(9CI) (CA INDEX NAME) 263865-11-8 CAPLUS

263865-12-9 CAPLUS Cyclobutanecarboxamide, N-[2-(6H-isoindolo[2,1-a]indol-11-yl)ethyl}-CN (9CI) (CA INDEX NAME)

ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

263865-13-0 CAPLUS Acetamide, N-[2-[2-methoxy-6H-isoindolo[2,1-a]indol-11-yl]ethyl]- (9CI) (CA INDEX NAME)

CH2-CH2-NHAC

263665-14-1 CAPLUS Propanamide, N-[2-(2-methoxy-6H-isoindolo(2,1-a]indol-11-yl)ethyl]- (9CI) (CA INDEX NAME)

203803-13-2 CREBUS Cyclopropanecarboxamide, N-[2-(2-methoxy-6H-isoindolo[2,1-a]indol-11-yl)ethyl}- (9CI) (CA INDEX NAME)

ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

263865-19-6 CAPLUS 20300-17-0 CAPAUS Cyclopropanecarboxamide, N-[2-(2-ethoxy-6H-isoindolo[2,1-a]indol-11-yllethyl]- (9CI) (CA INDEX NAME)

263865-20-9 CAPLUS
Acetamide, N-[2-12-chloro-6H-isoindolo[2,1-a]indol-11-yl]ethyl]- (9CI)
(CA INDEX NAME)

CH2-CH2-NHAC C1

REFERENCE COUNT:

THERE ARE 58 CITED REFERENCES AVAILABLE FOR

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

263865-16-3 CAPLUS Acetamide, N-[2-(2-ethoxy-6H-isoindolo[2,1-a]indol-11-y1)ethyl}- (9CI) (CA INDEX NAME)

263865-17-4 CAPLUS Propanamide, N-[2-(2-ethoxy-6H-isoindolo[2,1-a]indol-11-yl]ethyl]- (9CI) (CA INDEX NAME)

263865-18-5 CAPLUS Butanamide, N-[2-(2-ethoxy-6H-isoindolo[2,1-a]indol-11-yl)ethyl]- (9CI) (CA INDEX NAME)

L5 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:442966 CAPLUS
DOCUMENT NUMBER: 131:240681
TITLE: 2009:442968 Design of subtype selective melatonin receptor agonists and antagonists
AUTHOR(S): Sugden, David; Yeh, Li-Kuan; Teh, Muy-Teck
CORPORATE SOURCE: Physiology Division, GKT School of Biomedical

Science,

Science,

King's College London, London, W8 7AH, UK

SOURCE: Reproduction, Nutrition, Development (1999), 39(3),
335-344

PUBLISHER: Editions Scientifiques et Medicales Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Studies of the physiol, actions of melatonin have been hindered by the lack of specific, potent and subtype selective agonists and antagonists.

We describe the utility of a melanophore cell line from Xenopus laevis for

exploring structure-activity relationships among novel melatonin analogs and report a novel MT2-selective agonist (IIK7) and MT2-selective

receptor
antagonist (K185). IIK7 is a potent melatonin receptor agonist in the
melanophore model, and in NIH3T3 cells expressing human mtl and MT2
receptor subtypes. In radioligand binding expts. IIK7 is 90-fold
selective for the MT2 subtype. K185 is devoid of agonist activity, but
acts as a competitive melatonin antagonist in melanophores. A low
concentration
(10-9M) antagonizes melatonin inhibition of forskolin stimulation of cAMP
in NIH3T3 cells expressing human MT2 receptors, but has no effect in
cells

cells
expressing mtl receptors. In binding assays, K185 is 140-fold selective
for the MT2 subtype.

IT 244160-10-9
RI: BAC (Biological activity or effector, except adverse); BSU
(Biological

logical
study, unclassified); PRP (Properties); BIOL (Biological study)
 (melatonin analogs structure-activity relationship in frog melanophore
 and human melatonin receptors)
244160-10-9 CAPLUS
Butanamide, N-(2-(2-methoxy-6H-isoindolo{2,1-a}indol-11-yl)ethyl}- (9CI)
(CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 29 CITED REFERENCES AVAILABLE FOR RECORD. ALL CITATIONS AVAILABLE IN THE RE

L5 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 1993:662000 CAPLUS DOCUMENT NUMBER: 119:262000

119:262000
Chemistry, binding affinities, and behavioral properties of a new class of "antineophobic" mitochondrial DBI receptor complex (mDRC) ligands Kozikowski, A. P.: Ma, D.: Brewer, James; Sun, S.; Costa, E.; Romeo, E.; Guidotti, A. Mayo Found. Med. Educ. Res., Jacksonville, FL, 32224, USA TITLE: AUTHOR (S):

CORPORATE SOURCE:

SOURCE: 2908-20

Journal of Medicinal Chemistry (1993), 36(20),

CODEN: JMCMAR: ISSN: 0022-2623

DOCUMENT TYPE:

NAGE: English
The mitochondrial DBI (diazepam-binding inhibitor) receptor complex

c; previously called the peripheral benzodiazepine receptors) is linked to the production of neurosteroids such as pregnenolone sulfate, dehydroepiandrosterone sulfate, and others. In order to gain further information as to the function of the mDRC in the brain, the authors has constructed and tested, both in vitro and in vivo, a novel series of ligands, 2-arylindole-3-acetamides. The SAR studies detailed herein delineate some of the structural features required for high affinity binding to the mDRCs. In most cases the new ligands were prepared by of

of the Fischer indole synthesis. Variations in the length and number of the alkyl groups on the amide nitrogen were probed together with the effects of halogen substituents on one or both of the aryl rings. Some ligands were also synthesized for study which represent conformationally constrained versions of the parent structure. Broad screening studies revealed these indoleacetamides to be highly selective for the mDRC,

they failed to bind with any significant affinity to other receptor systems. Some of the ligands were found to exhibit Ki values in the low nanomolar range for the mDRC as measured by the displacement of 13814'-chlorodiazepam. A subset of these ligands was also shown to stimulate pregnenolone formation from the mitochondria of C6-2B glioma cells with an EC50 of about 3 nM. In animal expts. ligands selected for further study were found to exhibit antineophobic effects, in spite of

fact that they exhibit no direct action on GABAA receptors.

fact that they exhibit no direct action on GABBA receptors.

Consequently,

it is postulated that these ligands owe their action to an indirect
modulation of GABBA receptor function, presumably by stimulation of
neurosteroid production and release from glial cells, followed by
modulation of GABA's action on the chloride ion channel conductance of
GABA receptors.

IT 147375-21-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and mitochondrial diazepam-binding receptor complex
affinity

affinity

of, glial neurosteroid release and GABAA receptor function modulation
and antineophobic activity in relation to)

RN 147375-21-1 CAPLUS

ANSWER 9 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) 6H-Isoindolo[2,1-a]indole-11-acetamide, N,N-dihexyl- (9CI) (CA INDEX

N- (CH2)5-Me (CH2)5-Me

135966-96-0P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and mitochondrial diazepam-binding receptor complex

affinity
of, glial neurosteroid release and GABAA receptor function modulation
in relation to)
RN 135966-96-0 CAPLUS

6H-Isoindolo[2,1-a]indole-11-acetamide, N,N-dipropyl- (9CI) (CA INDEX

L5 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2006 ACS ON STN .
ACCESSION NUMBER: 1993:233880 CAPLUS
DOCUMENT NUMBER: 118:233880
TITLE: Preparation of its ...

118:233880
Preparation of indolecarboxamides and methods of treating neurological and psychiatric disorders Costa, Erminio: Guidotti, Alessandro: Kozikowski, Alan: Ma, Dawel Fidia - Georgetown Institute for the Neurosciences, USA
PCT Int. Appl., 55 pp.
CODEN: PIXXD2
Patent INVENTOR (S):

PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE: Patent English LANGUAGE: FAMILY ACC. NUM. CO PATENT INFORMATION: COUNT: 1

KIND DATE PATENT NO. APPLICATION NO. PATENT NO. KIND DATE APPLICATION NO. DATE

WO 3300334 A1 19930107 WO 1992-US5246 19920626

W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JF, KF, KR, LK, LU, MG, NN, MM, NL, NO, PL, RO, RU, SD, SE, US

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, NR, SN, TD, TG

US 5206582 A 19930427 US 1991-722196 19910627

AU 9222939 A1 19930125 AU 1992-22939 19920626

EP 546164 A1 19930166 EP 1992-914902 19920626

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE

JP 06501030 T2 19940127 JP 1993-501593 19920626

PRIORITY APPLN. INFO:: US 1991-722196 A 19910627 A 19920626

OTHER SOURCE(S):

MARPAT 118:233880

Title compds. I [R1, R2 = H, C3-12 alkyl, (alkyl)aryl: R1R2 = AB Title compds. I [R1, K2 = N, C5 = ----, 4-6-membered (un)saturated ring: R3, R4 = H, C1-12 alkyl, O2N, H2N, N3, cyano, halo,

RO, RS (wherein R = H, alkyl); A = C1-3 alkylene to form a ring or null;

2
 = 0, NH, S, CH:CH; n = 1-3] or their salts are prepared PhNHNH2,
PhCOCH2CH2CO2H and H2SO4 in EtOH were refluxed for 24 h, cooled and
extracted
with Et2O to give Et 2-phenyl-3-indoleacetate which in 3N NAOH was
refluxed for 3 h, acidified with HCl and treated with Me(CH2)SNH2,
PhOP(0)(Cl)NHPh, and Et3N to give I (A = null, Z = CH:CH, R1 = R3 = R4 =
H, R2 = hexyl, n = 1). I showed anxiolytic action in rodents at 0.1-0.5

ANSMER 10 0.

mg/kg.
135966-96-0P 147375-21-1P
RL: SPN (Synthetic preparation): PREP (Preparation)
(preparation of, as drug for treatment of neurol. disorders and as antipsychotics)
135966-96-0 CAPLUS
6H-Isoindolo[2,1-a]indole-11-acetamide, N,N-dipropyl- (9CI) (CA INDEX NAME)

147375-21-1 CAPLUS GH-Isoindolo[2,1-a]indole-11-acetamide, N,N-dihexyl- (9CI) (CA INDEX NAME)

L5 ANSWER 11 OF 11
CAPLUS COPYRIGHT 2006 ACS on STN
DOCUMENT NUMBER:
1991:535868 CAPLUS
115:135868
15:135868 CAPLUS
115:135868
CAPLUS
115:

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

The synthesis of polycyclic indoles, e.g., I (X = 0, CH2), II, III, is shown to be accomplished readily by the palladium catalyzed intramol. cycliration-of-Dromoarylindoles, e.g., IV, V, VI.
13596-56-0P

BJ: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
13596-96-0 CAPULS
6H-Isoindolo(2,1,alandole-11-acetamide, N,N-dipropyl- (9CI) (CA INDEX SAMUL OS TO NAME)